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UNITED STATES PLANT PATENT APPLICATION

of

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for .

MINIATURE ROSE PLANT NAMED

'POULHI016'



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'POULHI016'

ABSTRACT OF THE DISCLOSURE

A new miniature rose plant which has abundant, red flowers and attractive foliage. The variety successfully propagates from softwood cuttings and is suitable for year round production in commercial glasshouses. This new and distinct variety has shown to be uniform and stable in the resulting generations from asexual propagation.

SUMMARY OF THE INVENTION

BOTANICAL CLASSIFICATION

Rosa hybrida

VARIETY DENOMINATION

'POULhi016'

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The present invention constitutes a new and distinct variety of miniature rose plant which originated from a controlled crossing between the female seed parent an unnamed seedling, and the male pollen parent, an unnamed seedling. The two parents were crossed and the resulting seeds were planted in a controlled environment. The new variety is named 'Poulhi016'.

The new rose may be distinguished from its seed parent by the following combination of characteristics:

- 1. The seed parent has flower petals which are lighter red in color than those of 'Poulhi016'.
- 2. Flowers of the seed parent have fewer flower petals than those of 'Poulhi016'.

The new variety may be distinguished from its pollen parent by the following combination of characteristics:

- 1. The pollen parent has a shorter growth habit than that of 'poulhi016'
- 2. The pollen parent has flowers with fewer

Poulhio16

petals than flowers of "poulhi016".

The objective of the hybridization of this rose variety for commercial culture was to create a new and distinct variety with unique qualities, such as:

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- 1. Uniform and abundant dark red flowers;
- 2. Vigorous and compact growth;
- 3. Year-round flowering under glasshouse conditions;

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- Suitability for production from softwood cuttings in pots;
- 5. Durable flowers and foliage which make a variety suitable for distribution in the floral industry;

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6. Disease resistance.

This combination of qualities is not present in previously available commercial cultivars of this type, known to the inventors, and distinguish 'Poulhi016' from all other varieties of which we are aware.

As part of their rose development program, L. Pernille Olesen and Mogens N. Olesen germinated the seeds from the aforementioned hybridization and conducted evaluations on the resulting seedlings in a controlled environment in

Fredensborg, Denmark.

'Poulhi016' was selected by the inventors as a single plant from the progeny of the hybridization in 1996.

Asexual reproduction of 'Poulhi016' by cuttings and traditional budding was first done by L. Pernille and Mogens N. Olesen in their nursery in Fredensborg, Denmark in 1997. This initial and other subsequent propagations conducted in controlled environments have demonstrated that the characteristics of 'Poulhi016' are true to type and are transmitted from one generation to the next.

BRIEF DESCRIPTION OF THE DRAWING

The accompanying color illustration shows as true as is reasonably possible to obtain in color photographs of this type, the typical characteristics of the buds,

flowers, leaves, and stems of 'Poulhi016'. Specifically

illustrated in Figure 1:

Fig 1; Stem showing branching and the attachment of leaves, buds, and peduncles;

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Specifically illustrated in Figure 2:

- Fig 2.1; Flower petals, detached;
- Fig 2.2; Sepals, receptacle, and pedicel;
- Fig 2.3; Flower bud partially opened and opened;
- Fig 2.4; Bare stems exhibiting thorns;
- Fig 2.5; Trifoliate leaf.
- Fig 2.6; Mature leaves.

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DETAILED DESCRIPTION OF THE VARIETY

The following is a description of 'Poulhi016', as observed in its growth in Jackson County, Oregon. Observed plants are 3 years of age and were grown on Rosa multiflora rootstock. Color references are made using the Royal Horticultural Society (London, England) Colour Chart, 1995, except where common terms of color are used.

For a comparison, several physical characteristics of the rose variety 'Poulanit', a rose variety from the same inventors described and illustrated in U.S. Plant Patent No. 11,538 issued 3 October, 2000, are compared to 'Poulhi016' in Chart 1.

CHART 1

'Poulhi016''Poulanit'General tonality60A to Red Group 53A Red Group 46A to 53AFlower diameter30 to 35 mm45 to 55 mmPetalage75 petals20 to 30 petals

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FLOWER AND FLOWER BUD

Blooming habit: Continuous.

Flower bud:

15 Size: Upon opening, 22 mm in

length from base of

receptacle to end of bud.

Bud diameter is 15 mm.

Bud form: Globular.

20 Bud color: As sepals unfold, Red-

Purple Group 60A. Red-

Purple Group 60A at 1/4

opening.

Sepals:

Upper Surface:

Color: Yellow-Green Group 145A.

Surface: Surfaces of sepals strongly

pubescent.

Anthocyanin: Greyed-Red Group 178A.

Lower Surface:

Color: Yellow-Green Group 144A.

Anthocyanin: Greyed-Orange Group 166A to

Greyed-Purple Group 183A.

10 Shape:

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Sepal apex is cirrhose.

Base is flat at union with

receptacle.

Margins: Margins have weak

foliaceous appendages on

three of the five sepals.

Stipitate glands are

present in medium quantity

on margins and lower

surfaces of sepals.

Size: 25 mm (1) \times 9 mm (w).

Receptacle:

Surface: Smooth and glaucous.

Shape: Urn-shaped.

Size:

8 mm (h) $\times 8 \text{ mm}$ (w).

Color:

Yellow-Green Group 144A.

Anthocyanin:

Greyed-Red Group 178A.

PEDICEL:

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Surface:

Glaucous.

FDUNCIE:

Length:

20-to-25 mm. 30+035 MM.

50 to 70 MM

Color:

Yellow-Green Group 144B.

3mm

Anthocyanin:

Greyed-Red Group 178A.

: yELLOW-GREEN 144A

HONS Strength:

Strong.

SMOOTH W/ MANY

Borne:

In small clusters. On

average, there are 31

flower buds per flowering

stem.

Flower bloom:

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Fragrance:

Light floral scent.

Duration:

The blooms have a duration

on the plant of

approximately 10 to 14

days. Petals fall cleanly

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away from plant after

flowers have fully matured.

Size:

Average flower diameter is

30 to 35 mm when open.

Flower depth is 20 mm.

Form:

General shape is a deep

cup.

Shape of flower when viewed from the side:

Upon opening, upper part:Flat.

Upon opening, lower part:Convex.

Open flower, upper part: Flattened

convex.

Open flower, lower part: Flattened

convex.

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Petalage: On average 75 petals under

normal conditions with 20

petaloids.

15 Color:

Upon opening, petals:

Outermost petals:

Outer Side:

Red-Purple Group 60A.

Inner Side:

Red Group 53A.

20 Innermost petals:

Outer Side:

Red-Purple Group 60A.

Inner Side:

Red Group 53A.

Upon opening, basal petal spots:

Outermost petals:

Outer Side: White Group 155A.

Inner Side: White Group 155A.

Innermost petals:

Outer Side: White Group 155A.

5 Inner Side: White Group 155A.

After opening, petals:

Outermost petals:

Outer Side: Red-Purple Group 60A.

Inner Side: Red Group 53A.

10 Innermost petals:

Outer Side: Red-Purple Group 60A.

Inner Side: Red Group 53A.

After opening, basal petal spots:

Outermost petals:

15 Outer Side: White Group 155A.

Inner Side: White Group 155A.

Innermost petals:

Outer Side: White Group 155A.

Inner Side: White Group 155A.

20 VARIAMONS IN FLOWER PETEL COLOR: OCCASIONALLY THERE ARE STREAKS

General Tonality: On open flower Red-Purple Group SURFACE

60A to Red Group 53A. No change

in the general tonality at the

end of the 10^{th} day.

Petals:

Petal Reflex:

None .

Petal Margin:

Entire with point in center

of margin. Weak undulations

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of the margin observed.

Shape:

NARROW FLUPTIC

Base is acute. Apex is

rounded.

Size:

25 mm (1) x 24 mm (w).

Thickness:

Average.

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Arrangement:

Not formal.

Petaloids:

Quantity:

15 to 25.

Size:

16 mm (1) \times 11 mm (w).

Shape:

Base is acute. Apex is

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rounded.

Color:

Upper Surface: Red Group 53A.

Lower Surface: Red-Purple Group 60A.

Reproductive Organs:

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Pistils:

Length: 4 mm.

Quantity: 35 (actual count).

Pollen:

None observed.

Anthers:

Size: 2 1

2 mm in length.

Color:

Greyed-Orange Group 163B.

Quantity: 92 (actual count).

Filaments:

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Color:

Yellow-Green Group 145C to

145D with intonations of

Red-Purple Group 60C.

Length:

4 mm.

Stigmas:

Level with the height of

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the anthers.

Color:

Yellow-Green Group 145C.

Styles:

LENG-TH

5 MM

Color:

Yellow-Green Group 145C.

Seed formation:

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Not observed.

PLANT

Plant growth: Vigorous, compact, upright to bushy.

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When grown in a field nursery on ${\it Rosa}$

multiflora understock, the average

height of the plant itself is 60 cm

and the average width is 50 cm.

Stems:

Color:

Young wood: Yellow-Green Group 144B

with light intonations of

Greyed-Red Group 178A.

5 Older wood: Yellow-Green Group 144A.

Surface Texture:

Young wood: Smooth.

Older wood: Smooth.

Thorns:

10 Incidence: 130 mm per 10 cm of stem.

Size: Variable. 1 to 8 mm.

Color: Yellow-Green Group 144B to

Greyed-Red Group 178A.

Shape: Concave.

15 Plant foliage: Normal number of leaflets on

normal leaves in middle of the

stem: 7 leaflets.

Compound Leaf size: 160 mm (l) x 100 mm (w).

Quantity: Average.

20 Color:

Juvenile foliage:

Upper Leaf Surface: Yellow-Green

Group 146A to

147A.

Lower Leaf Surface: Yellow-Green

Group 147B.

Mature foliage:

Upper Leaf Surface: Yellow-Green

5 Group 146A to

147A.

Lower Leaf Surface: Yellow-Green

Group 147B.

Anthocyanin intonation:

10 Location: Underside and margins

of juvenile foliage.

Color: Greyed-Red Group 181A.

Plant leaves and leaflets:

15 Stipules:

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Size: 20 mm in length.

Shape: Linear with outward

extending apecies.

Quantity: Two per compound leaf.

Margins: Finely serrated with few to

many stipitate glands.

Color: Yellow-Green Group 146B.

Petiole:

Length: 25 to 30 mm.

Color:

Yellow-Green Group 144B.

Underneath:

Thorns and stipitate glands

present.

Rachis:

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Size:

40 to 70 mm.

Color:

Yellow-Green Group 144B.

Underneath:

Thorns and stipitate glands

present.

Leaflet:

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Size:

41 mm (1) \times 26 mm (w).

Edge:

Serrated.

General Shape: Broadly ovate.

Apex Shape:

Acute.

Base Shape:

Round.

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Texture:

Smooth.

Arrangement:

Odd pinnate.

Venation:

Reticulate.

Glossiness:

Moderately glossy.

Thickness:

Thick.

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Disease resistance:

Average resistance to mildew, black spot, and <u>Botrytis</u> under normal growing conditions in Jackson County, Oregon.

Cold hardiness:

'Poulhi016' has been found to be cold tolerant to USDA cold hardiness zone 6.

<u>CLAIM</u>

A new and distinct variety of rose plant of the miniature class, substantially as herein illustrated and described as a distinct and novel rose variety due to its abundant, red flowers, vigorous growth, compact habit, suitability for production from softwood cuttings in pots, and durable flowers and foliage which make the variety suitable for distribution in the floral industry.

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